

PLASMA pHD 389. THE RIBOSOMAL BINDING-SEQUENCE (EMPHASIZED WITH A FULL LINE), THE SEQUENCE FOR SIGNAL PEPTIDE FROM ompA (FROM E.coli) (DOTTED LINE) AND RECOGNITION SEQUENCE FOR SEVERAL RESTRICTION ENZYMES ARE SHOWN.

TENT & THAT THE

		EIN FC	PROTE		
90 50 70	120 40	180	240 80	300	360 120
GCGGTAGAAAATAAAGAAGAAACACCAGAAACACCAGAAACTGATTCAGAAGAAGAAGTA AlalvalgiuAsnLysGiuGiuThrProgiuThrProgiuThrAspSerGiuGiuGiuVai	ACAATCAAAGCTAACCTAATCTTTGCAAATGGAAGCACACAAACTGCAGAATTCAAAGGA ThrIleLysAlaAsnLeuIlePheAlaAsnGlySerThrGlnThrAlaGluPheLysGly	ACATTTGAAAAAGCAACAT CAGAAGCTT ATGCGTATGCA GATACTTTG AAGAAAGACAAT ThrPheGluLys AlaThrSerGluAlaTyrAlaTyrAlaAspThrLeuLysLysAspAsn	GGAGAATATACTGTAGATGTTGCAGATAAAGGTTATACTTTAAATATTAAATTTGCTGGA GlyGluTyrThrValAspVaIAlaAspLysGlyTyrThrLeuAsnIIeLysPheAlaGly	AA AGAAA AACCCA GAAGA ACCAAAA GAAGATTACT ATTAAAGCAAACT TAAT CTAT AA AGAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAA	GCAGATGGAAAAACACAAACAGCAGAATTCAAAGGAACATTGAAGAAGCAGCAGCAGAA AlaAspGlyLysThrGlnThrAlaGluPheLysGlyThrPheGluGluAlaThrAlaGlu



420	480	540	600	660	720	780
140	160	180	200	220	240	260
GCATACAGATATGCAGATGCATTAAAGAAGGACAATGGAGAATATACAGTAGACGTTGCA	GATAAAGGTTATACTTTAAATTTAAATTTGCTGGAAAAAAGAAAAACACCAGAAGAACCA	AAAGAAGAAGTTACTATTAAAGCAAACTTAATCTATGCAGATGGAAAAACACACAAACAGCA	GA ATTCA A AGGAACAT TTG A AGGA A GCA A CAGCAT A CAGAT A TGCT GACT TATTA	GCAAAAGAAAATGGTAAATATACAGTAGAČGTTGCAGATÄAAGGTTATAČTTTAAATATT	AAATTTGCTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AACTTAAT CTATGCA GATGGAAAAACT CAAACAGCA GAGTT CAAAGGAACATTTGCAGAA
AlaTyrArgTyrAlaAspAlaLeuLysLysAspAsnGlyGluTyrThrValAspValAla	AspLysGlyTyrThrLeuAsnIleLysPheAlaGly LysGluLysThrProGluGluPro	LysGluGluValThrIleLysAlaAsnLeuIleTyrAlaAspGlyLysThrGlnThrAla	GluPheLysGlyThrPheGluGluAlaThrAlaGluAlaTyrArgTyrAlaAspLeuLeu	AlalysGLuAsnGlyLysTyrThrValAspValAlaAspLysGlyTyrThrLeuAsnIle		Asn Leu I le Tyr Ala AspGly Lys Thr GlnThrAlaGlu Phe LysGly Thr Phe AlaGlu



840 280	300	960 320	1020 340	1080	1140 380
GCAACAGCAGAAGCATACAGATACGCTGACTTATTAGCAAAAGAAAATGGTAAATATACAAAAAAAA	GCAGACTTAGAAGATGGTGGATACACTATTAATATTAGATTTGCAGGTAAGAAAGTTGACAAABTTGACAAASTTGAAAABTTGACAAASTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAA	GAAAAACCAĞAA GAA CCCA TGGAC ACT T A CAA T TAAT CC T TA ATGGT A AA A CAT T GAAA GI u L ys Progiu Gi u Promet Asp Thr Tyr Lys Leu Ii e L eu AsnGiy Lys Thr Leu Lys	GGCGAAACAACTACTGAAGČTGTTGATGCTGCTACTGCAGAAAAGTCTTCAAACAATAC GlyGluThrThrGluAlaValAspAlaAlaThrAlaGluLysValPheLysGlnTyr	GCTAACGA CAACGGT GTTGA CGGTGAA TGGA CTTACGACGATGCGACTAAGACCTTTACA AlaAsnAspAsnGly ValAspGlyGluTrpThrTyrAspAspAlaThrLysThrPheThr	GTTACTGAAAACCAGAAGTGATCGATGCGTCTGAATTAACACCAGCCGTGACTTACTACAACTACAGCCGTGACTTACTACAACTACAACTTACAAACTAACAACTTACAAACTAACAAACTAACAAACTAACAAACTAACAAACTAACAAAAAA

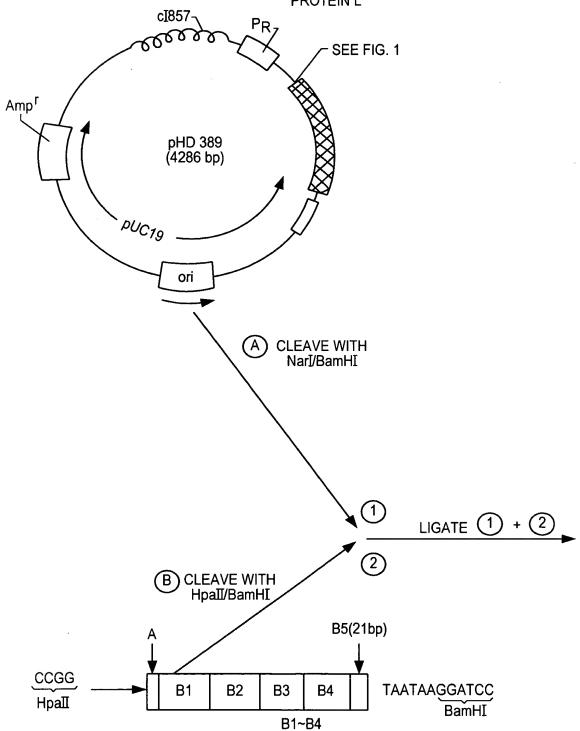


AAACTIGITÄTTAAT GGTAÄAACATTGAAÄGGCGAAACAÄCTACTAAAGČAGTAGACGCÄ LysLeuVallleAsnGlyLysThrLeuLysGlyGluThrThrThrLysAlaValAspAla GAAACTGCAĞAAAAAGCCTTCAAACAATAČGCTAACGACÄACGGTGTTGÄTGGTGTTTGĞ GIuThrAlaGluLysAlaPheLysGlnTyrAlaAsnAspAsnGlyValAspGlyValTrp ACTTATGATĞATGCGACTAÄGACCTTTACĞGTAACTGAAAAA 1308	hrTyrA

FIG. 2e



SCHEMATIC OVERALL VIEW OF THE PRODUCTION OF PROTEIN L





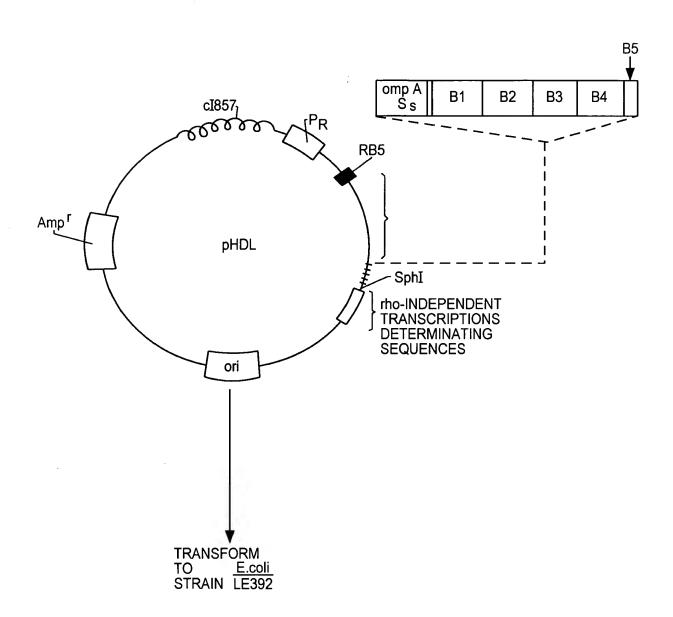
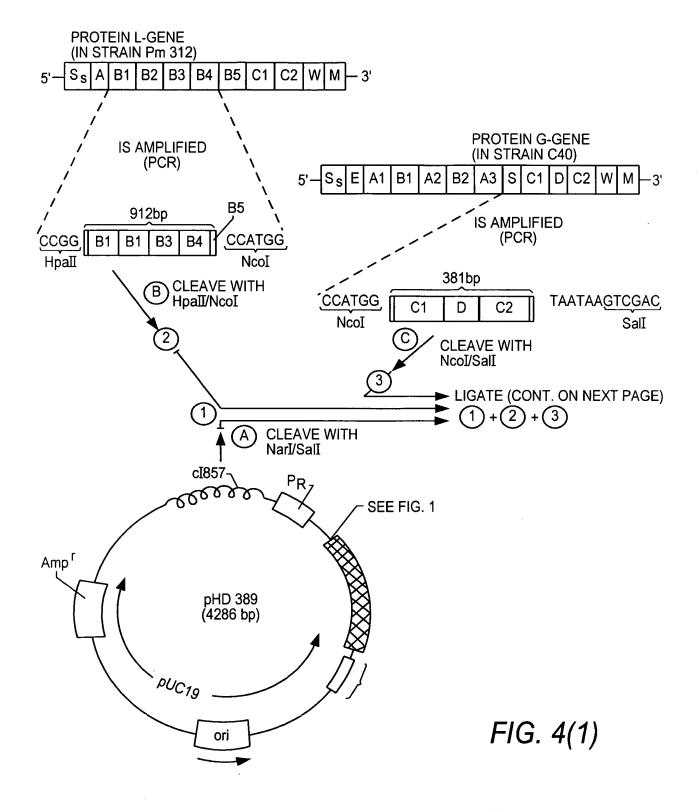


FIG. 3(2)



SCHEMATIC OVERALL VIEW OF PRODUCTION OF PROTEIN LG





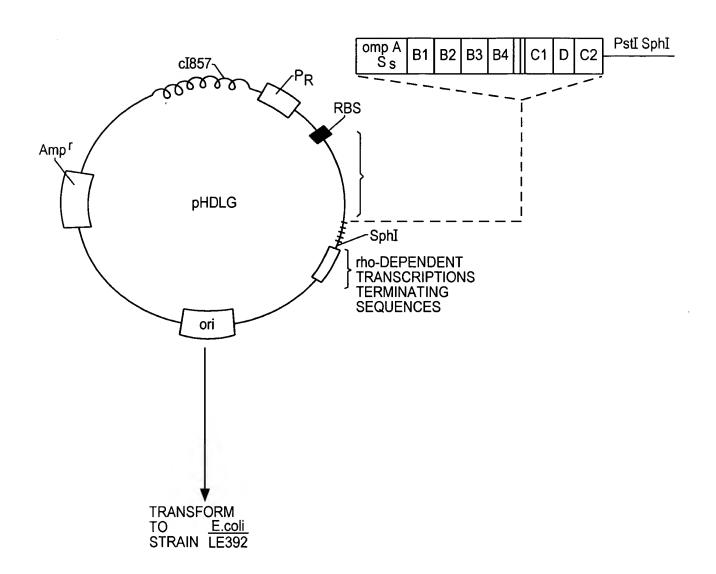
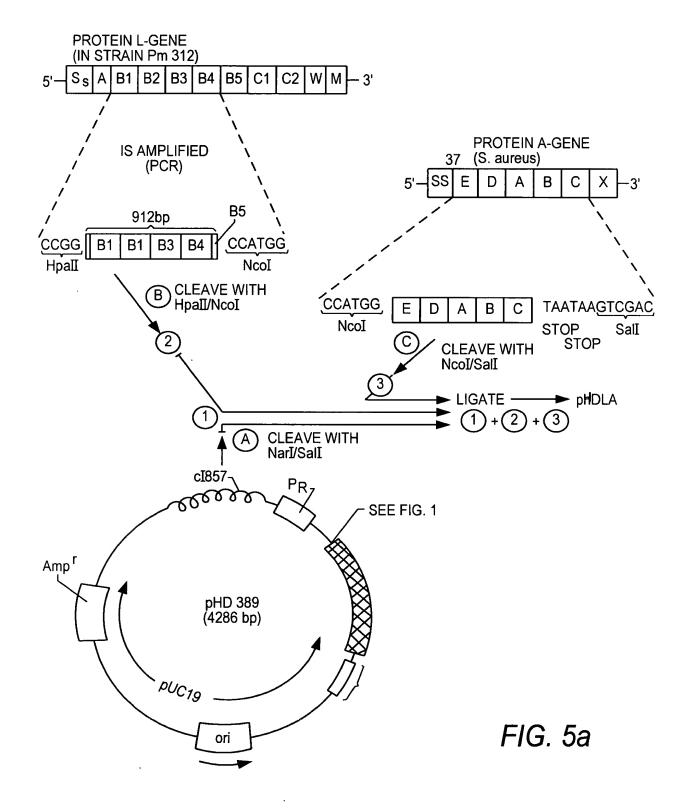


FIG. 4(2)

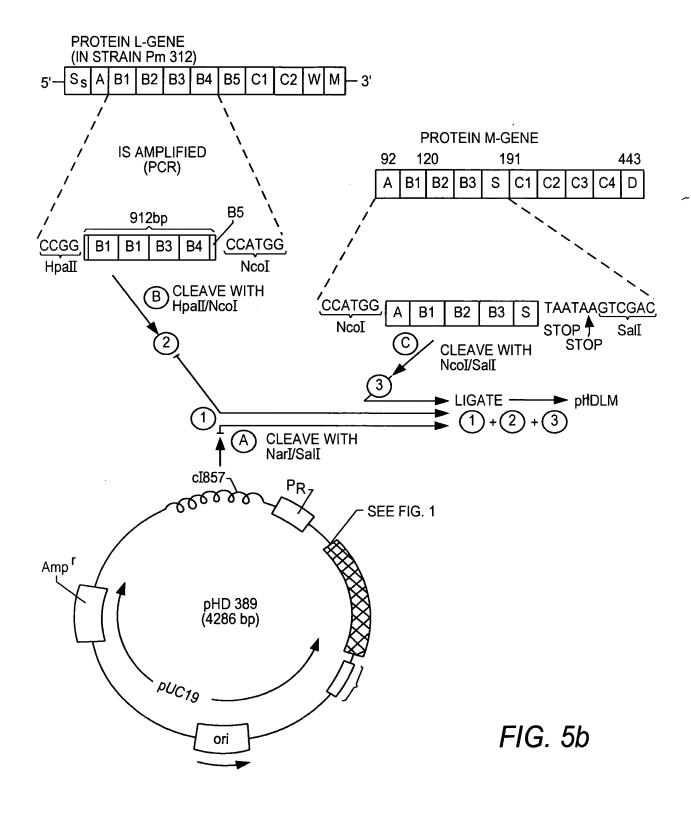


SCHEMATIC OVERALL VIEW OF PRODUCTION OF PROTEIN LA



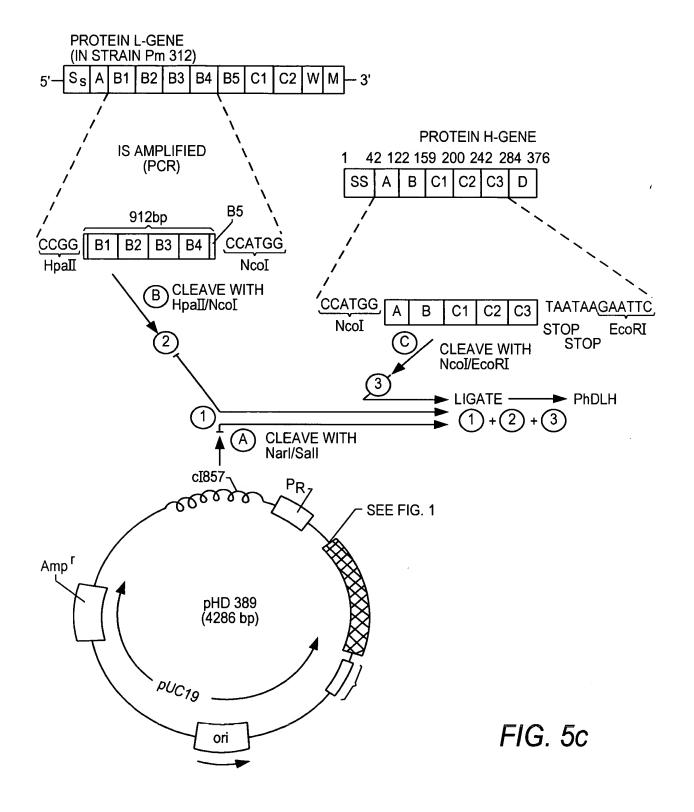


SCHEMATIC OVERALL VIEW OF PRODUCTION OF PROTEIN LM

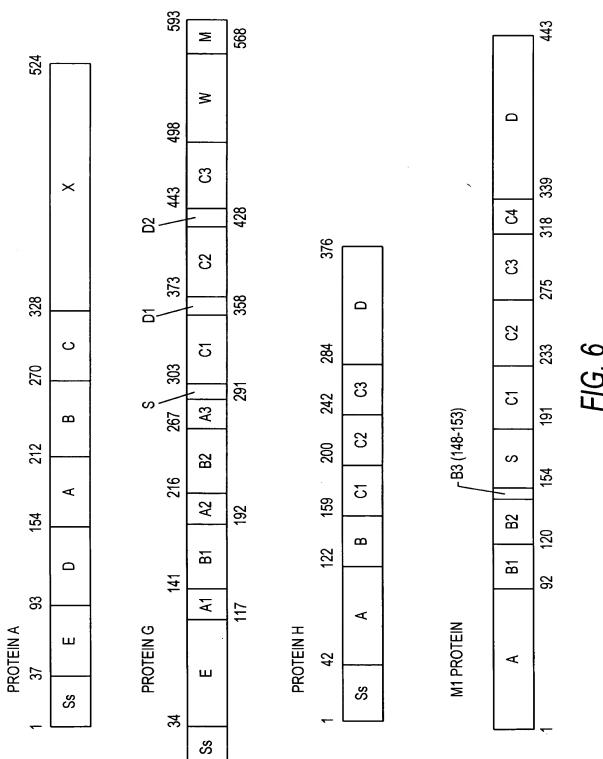




SCHEMATIC OVERALL VIEW OF PRODUCTION OF PROTEIN LH









88	120 40	8 8	240 80	300	360	420 140	480 160	540 180
v v v v v v v v v v v AACGGTGATGTTAGAAGATCTTGCAGCAAACAATCCCGCAATA v v v v v v v v v v v v v v v v v v	V V CAAAATATACGTTACGTCACGAAAACAAGGACTTAAAAGCGAGATTAGAGAATGCAATG CAATG GINAsnIleArgLeuArgHisGluAsnLysAspLeuLysAlaArgLeuGluAsnAlaMet	V GAAGTTGCAGGAAGAGATTTTAAGAGAGCTGAAGAACTTGAAAAAGCAAAACAAGCCTTA GluValAlaGlyArgAspPheLysArgAlaGluGluLeuGluLysAlaLysGlnAlaLeu	GAAGACCAGCGTAAAGATTTAGAAACTAAATTAAAAGAACTACAACAAGACTATGACTTA GluAspGlnArgLysAspLeuGluThrLysLeuLysGluLeuGlnGlnAspTyrAspLeu	CCAAAGGAATCAACAAGTTGGGATAGACAAAGACTTGAAAAAGAGTTAGAAGAGAGAAAAAGA CAAAAAGACTTGAAAAGAGTTAGAAGAGAAAAAG SCAAAAAGA CAAAAAGA CAAAAAGA CAAAAAAGA CAAAAAGA CAAAAAGA CAAAAAGA CAAAAAAGA CAAAAAGA CAAAAAAA GAAAAAA GAAAAAAA GAAAAAA GAAAAAA	GAAGCTCTTGAATTAGCGATAGACCAGGCAAGTCGGGACTACCATAGAGCTACCGCTTTA GluAlaLeuGluLeuAlaIleAspGlnAlaSerArgAspTyrHisArgAlaThrAlaLeu	V V OAAAAAGAGTTAGAAAGAAAAGCTCTTGAATTAGCGATAGACCAAGCGAGTCAGGGGGGGG	GACTATAATAGAGCTAACGTCTTAGAAAAGAGTTAGAAACGATTACTAGAGAACAAGAG AspTyrAsnArgAlaAsnValLeuGluLysGluLeuGluThrIleThrArgGluGluGlu	V V V ATTAATCGTAATCTTTTAGGCAATGCAAAACTTGAACTTGATCAACTTTCATCTGAAAAA IleAsnArgAsnLeuLeuGlyAsnAlaLysLeuGluLeuAspGlnLeuSerSerGluLys

FIG.7a



200	660 220	720 240	780
SAGCAGCTAACGATCGAAAAAAAAAAAAAAAAAAAAAAAA	V V V CGTCAAAGCCTTCGTCGTGACTTGGACGCATCACGTGAAGCCTAAGAAACAGGTTGAAAAAAAA	GATTTAGCAAACTTGACTGCTGAACTTGATAAGGTTAAAGAAGACAAACAA	GCAAGCCGTCAACGCCTTCGCCGTGACTTGGACGCATCACGTGAAGCTAAGAAACAGGTTAAAAAAAA

AMINO ACID SEQUENCE AND NUCLELC ACID SEQUENCE FOR PROTEIN M1, IgG-BINDING SOMEWHERE BETWEEN AMINO ACID 1-190.

FIG.78





840	300	960	1020	1080	1140	1200	1260	1320
280		320	340	360	380	400	420	440
SAAAAAGATTTAGCAAACTTGACTGCTGAACTTGATAAGGTTAAAGAAGAAAAAAAA	V V V V V V V V V V V V V V V V V V V	V V V CAAGTTGAAAAAGGTTTAGAAGAAGCAAACAGCAAATTAGCTGCTCTTGAAAAACTTAAAC GInValGluLysAlaLeuGluGluAlaAsnSerLysLeuAlaAlaLeuGluLysLeuAsn	v v v v v v AAAGAAGCAAGAAATTAACAGAAAAGGAAAAAGCTGAACTACAAGCAAAA LysGluLeuGluGluSerLysLysLeuThrGluLysGluLysAlaGluLeuGlnAlaLys	v v v v v cTTGAAGCAGAAAAGCACTCAAAGAACAATTAGCGAAACAAGCTGAAGAACTCGCA v v v v v v v v v v v v v v v v v v v	v v v v v v v v v v v v v v v v v v v	V V V OCTETTCCAGGTAAAGGTCAAGCACCACAGGTACAAAACCTAACCAAAACAAAGCA OCAAAAGGAAAGCAAAAGAAAAAA	v v v ccaatgaaagtaagagacagttaccatcaacaggtgaaacaggtaaccattcttc Ccaatgaaggaaggagagaggaggagggagggaagggaag	v ACAGCGCACGCGTTACTGTTATGGCAACAGCTGGAGTAGCAGCAGTTGTAAAACGCAAA Thr AlaAlaArgValThrValMetAlaThrAlaGlyValAlaAlaValValLysArgLys

FIG.7c

V GAAGAAACTAA 1329 GluGluAsn>>> 443



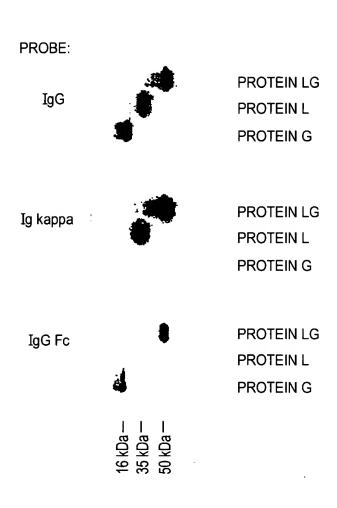


FIG. 8



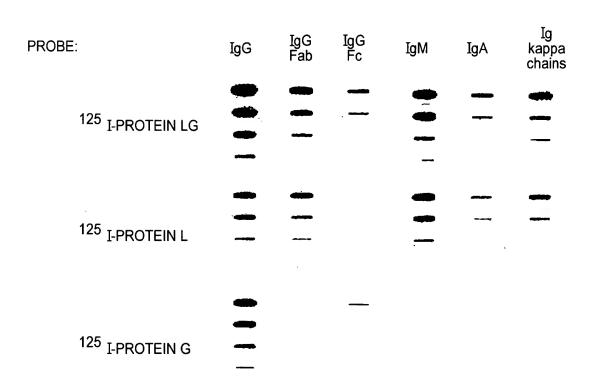


FIG. 9